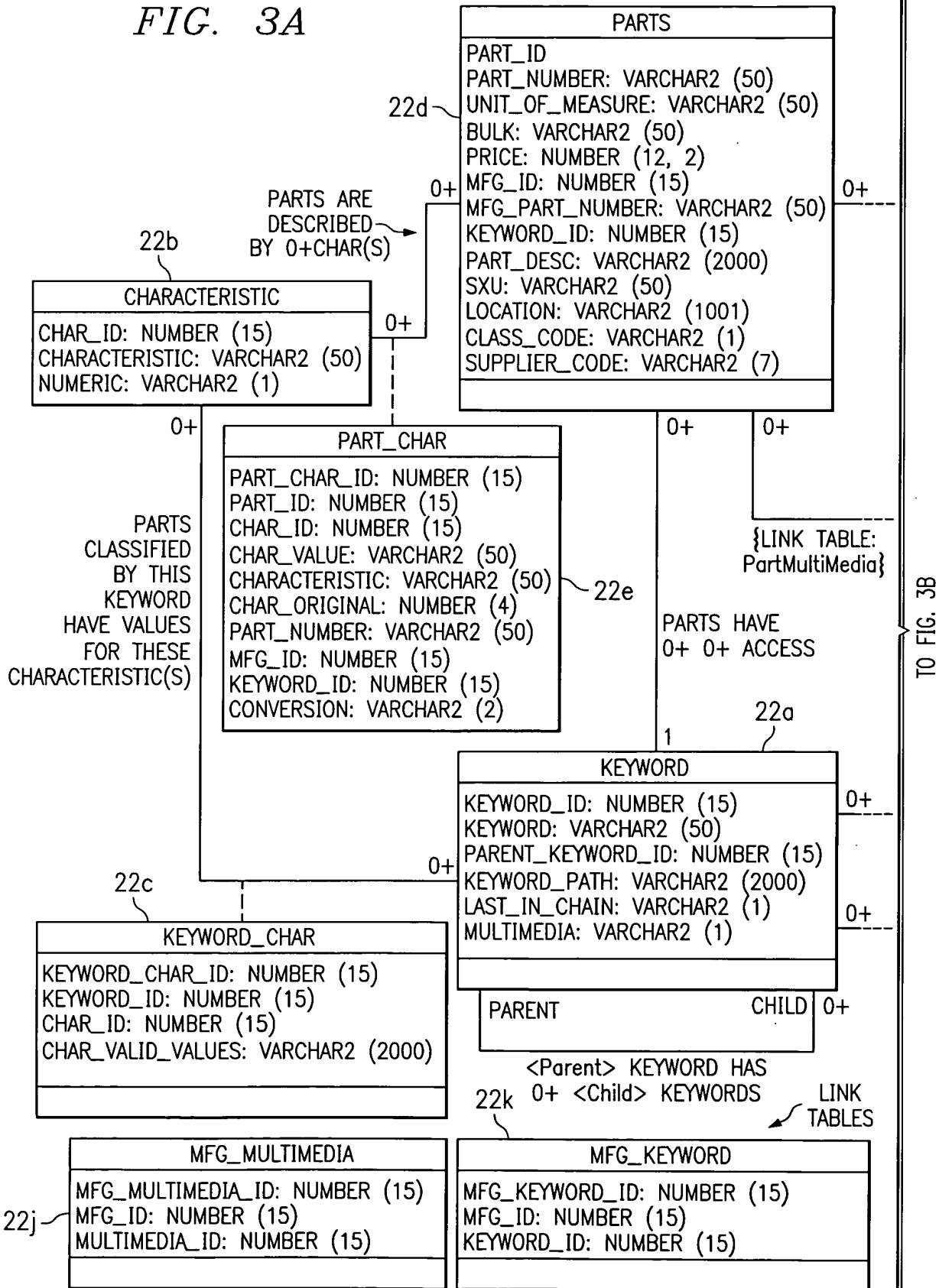


FIG. 3A



TO FIG. 3B

FIG. 3B

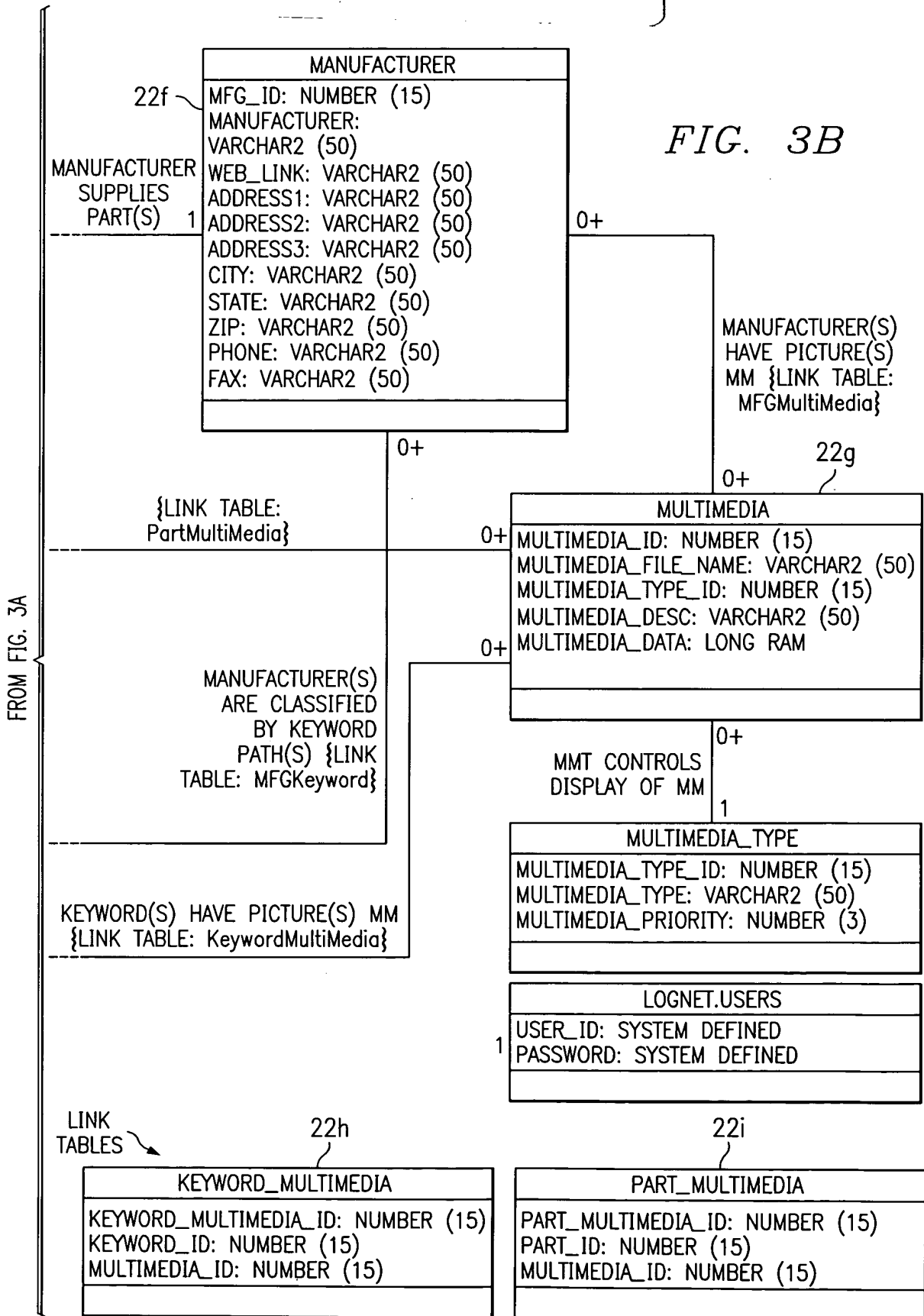


FIG. 3C

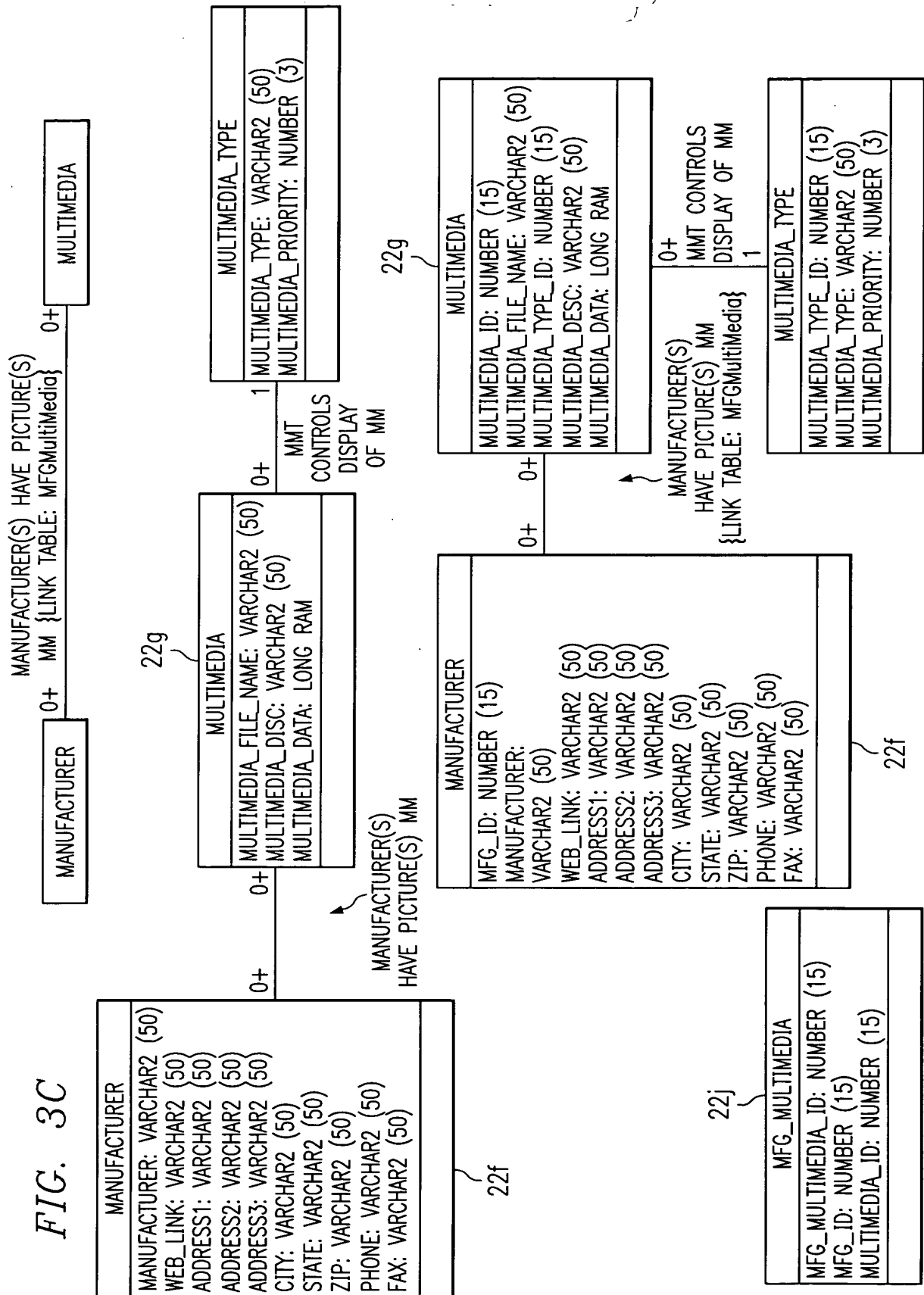


Fig. 4A

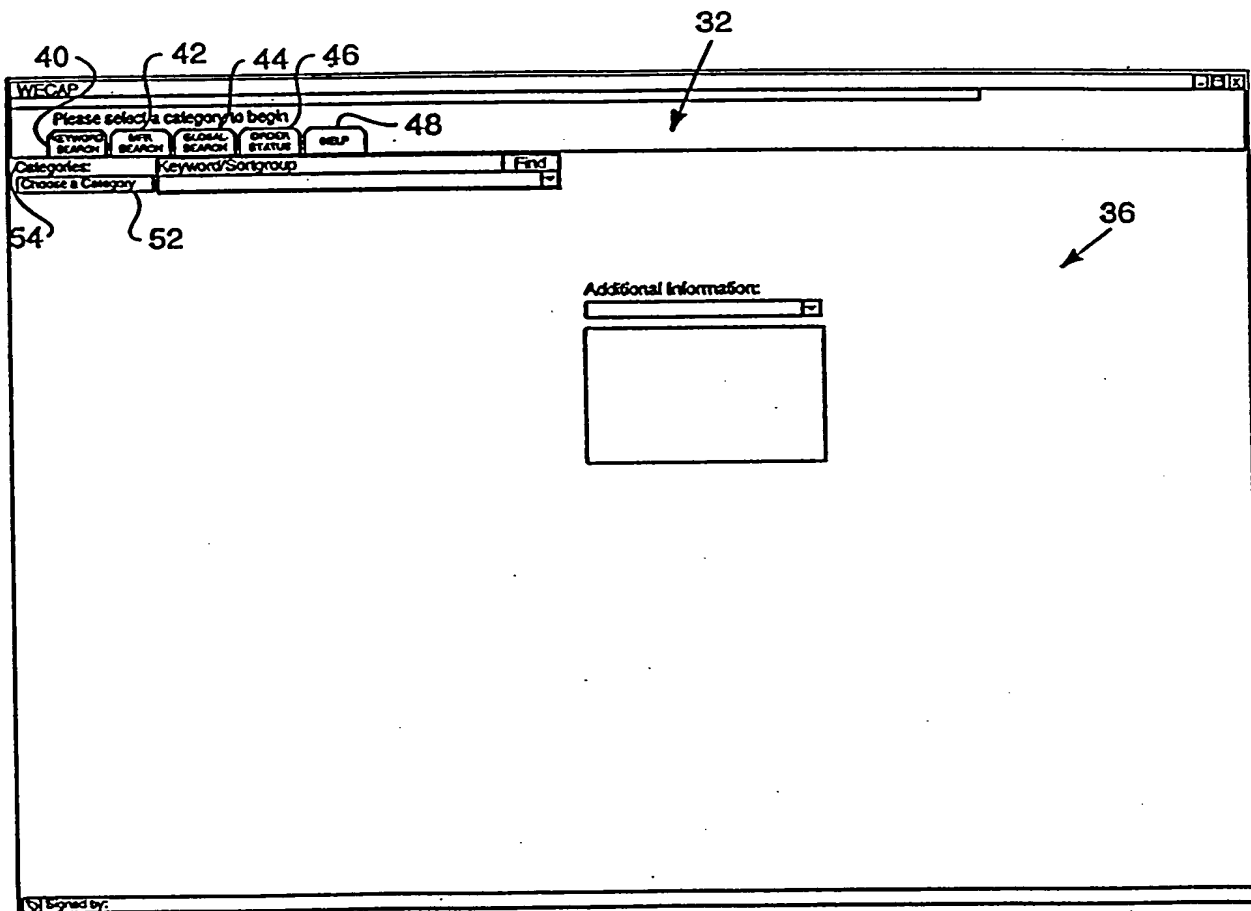


Fig. 4B

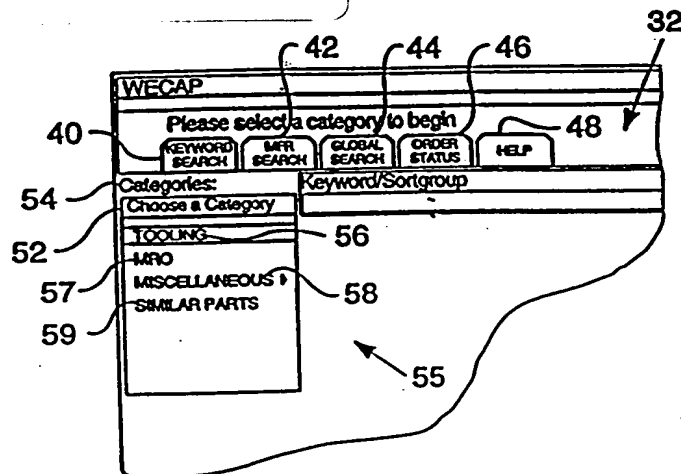


Fig. 5A

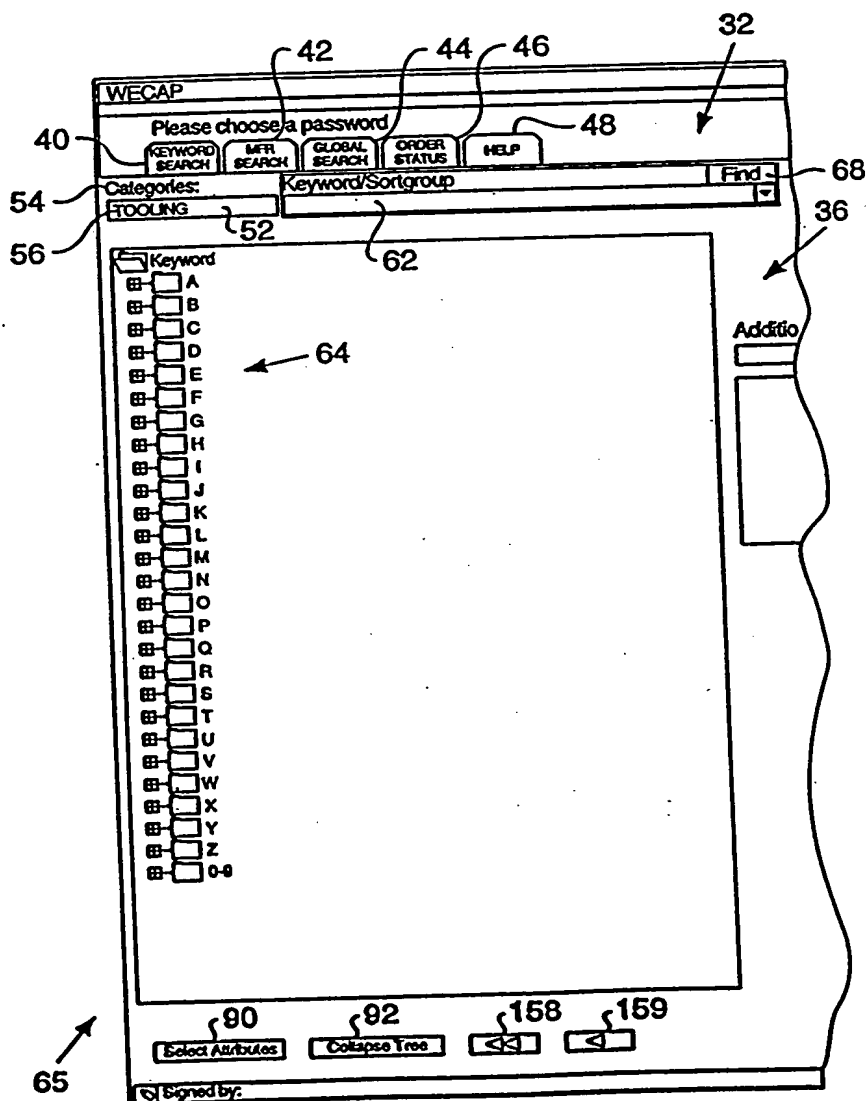


Fig. 5B

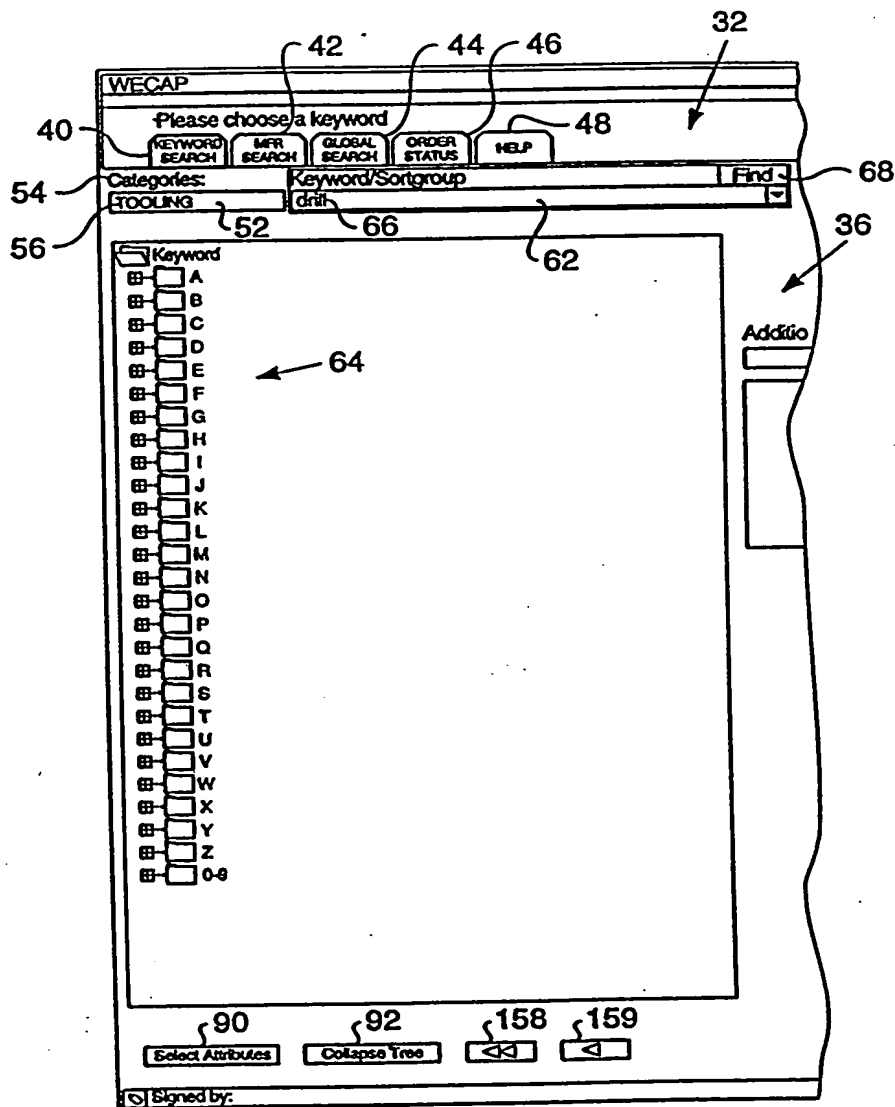


Fig. 5C

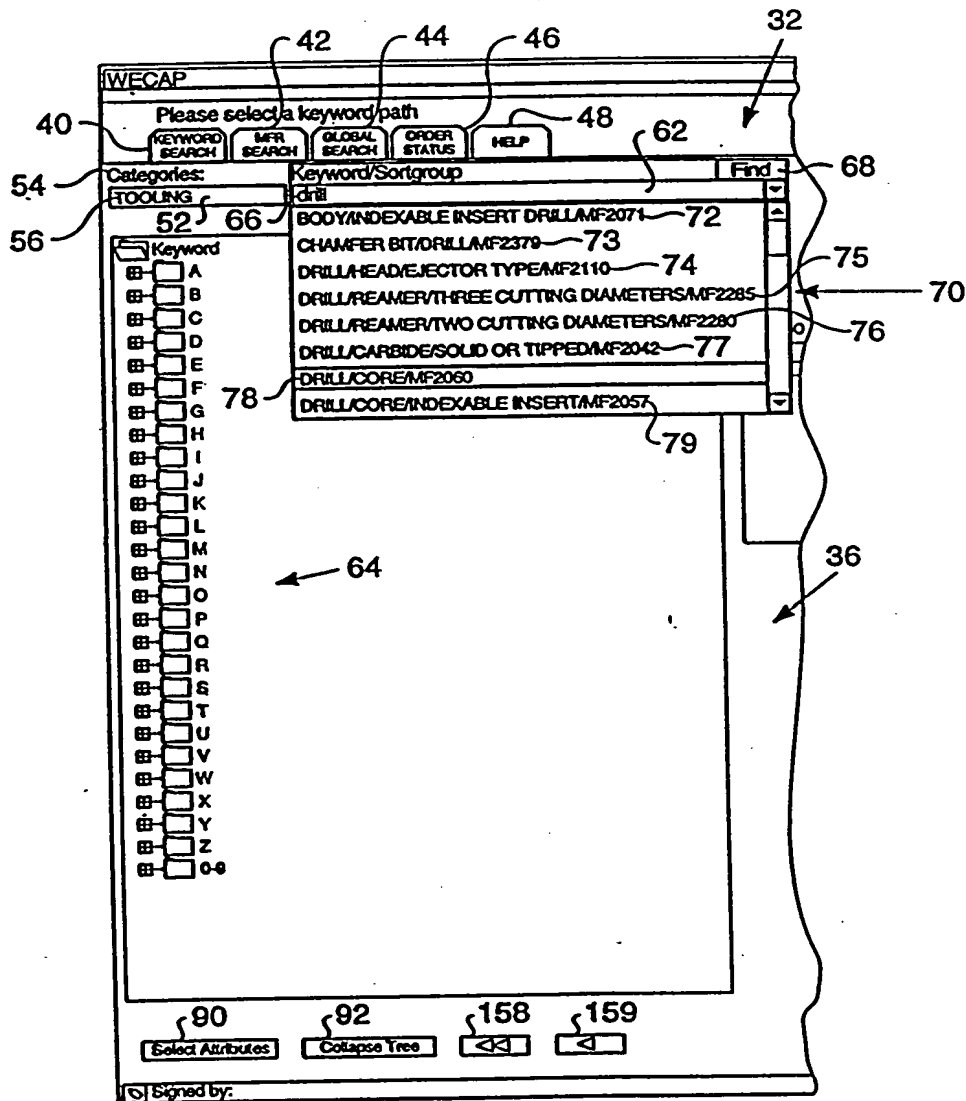


Fig. 5D

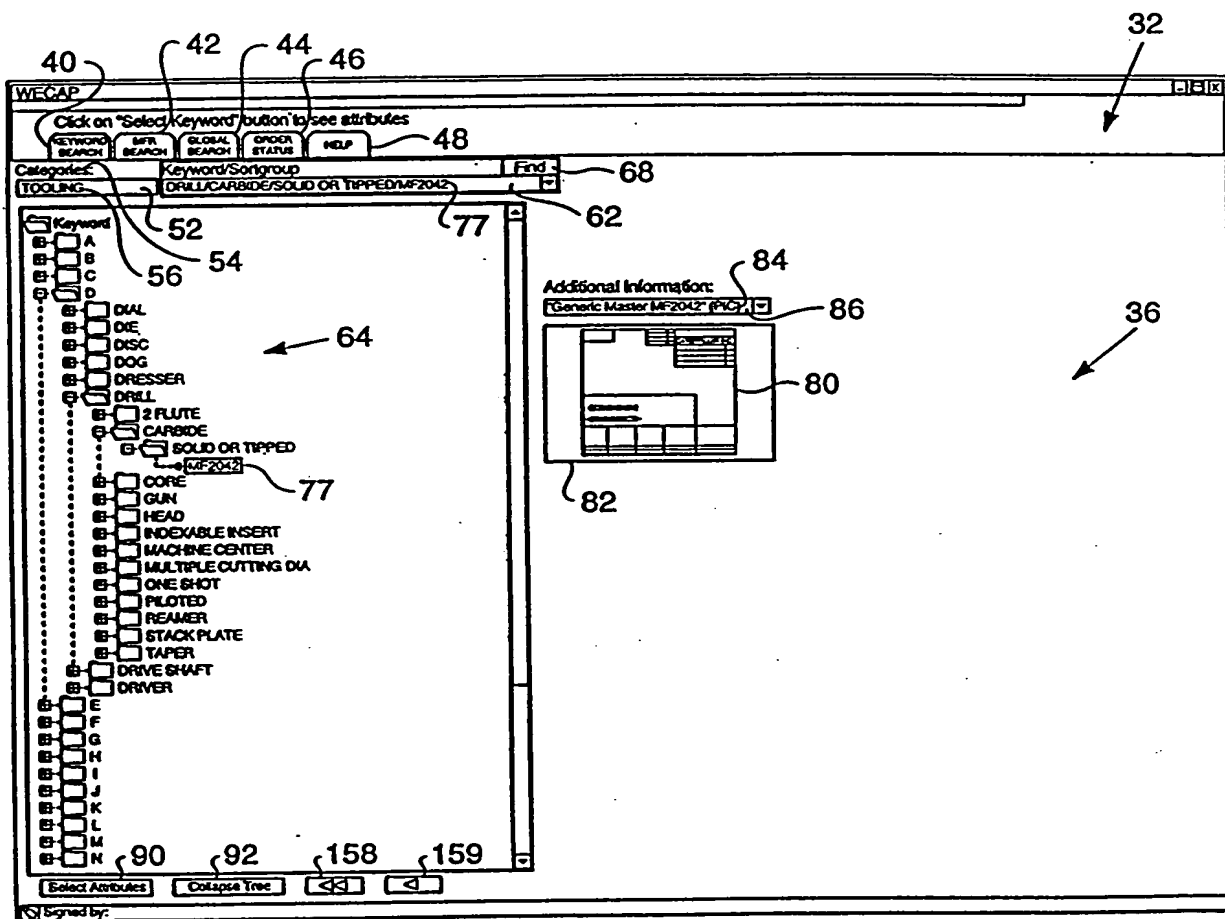


Fig. 6A

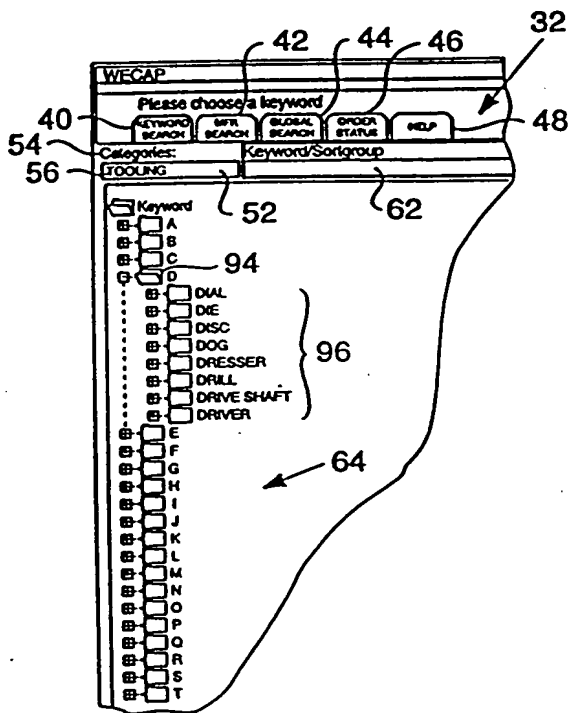


Fig. 6B

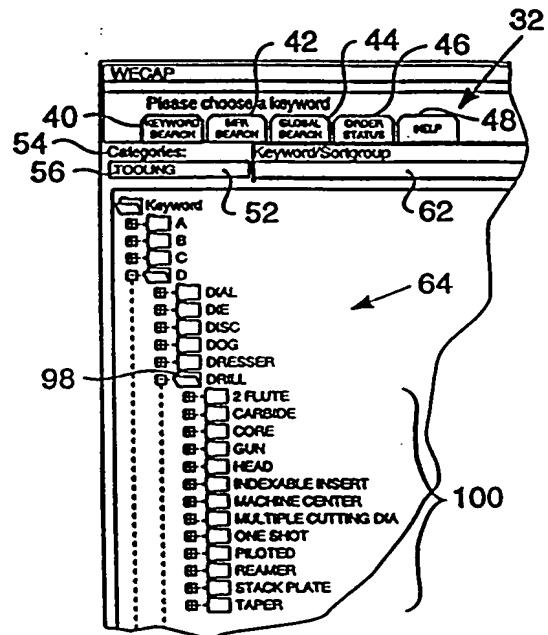


Fig. 6C

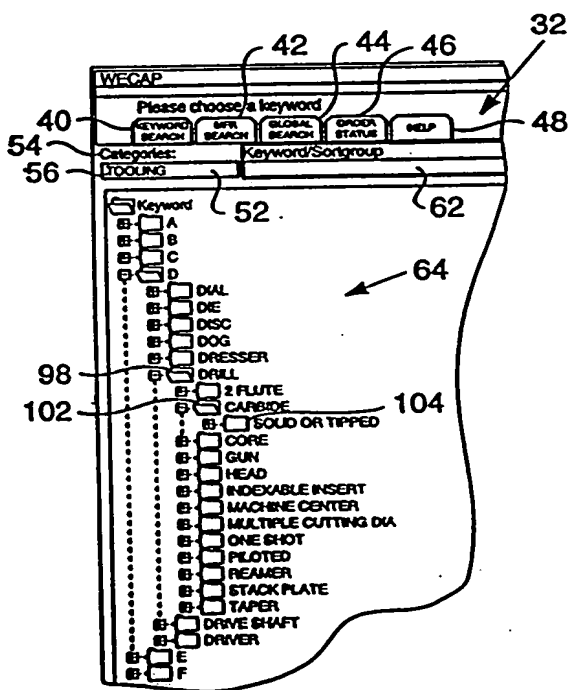
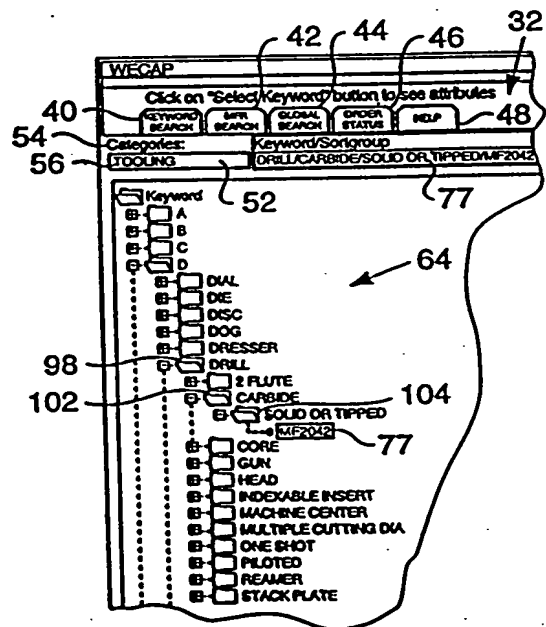


Fig. 6D



20052642-011807

Fig. 7

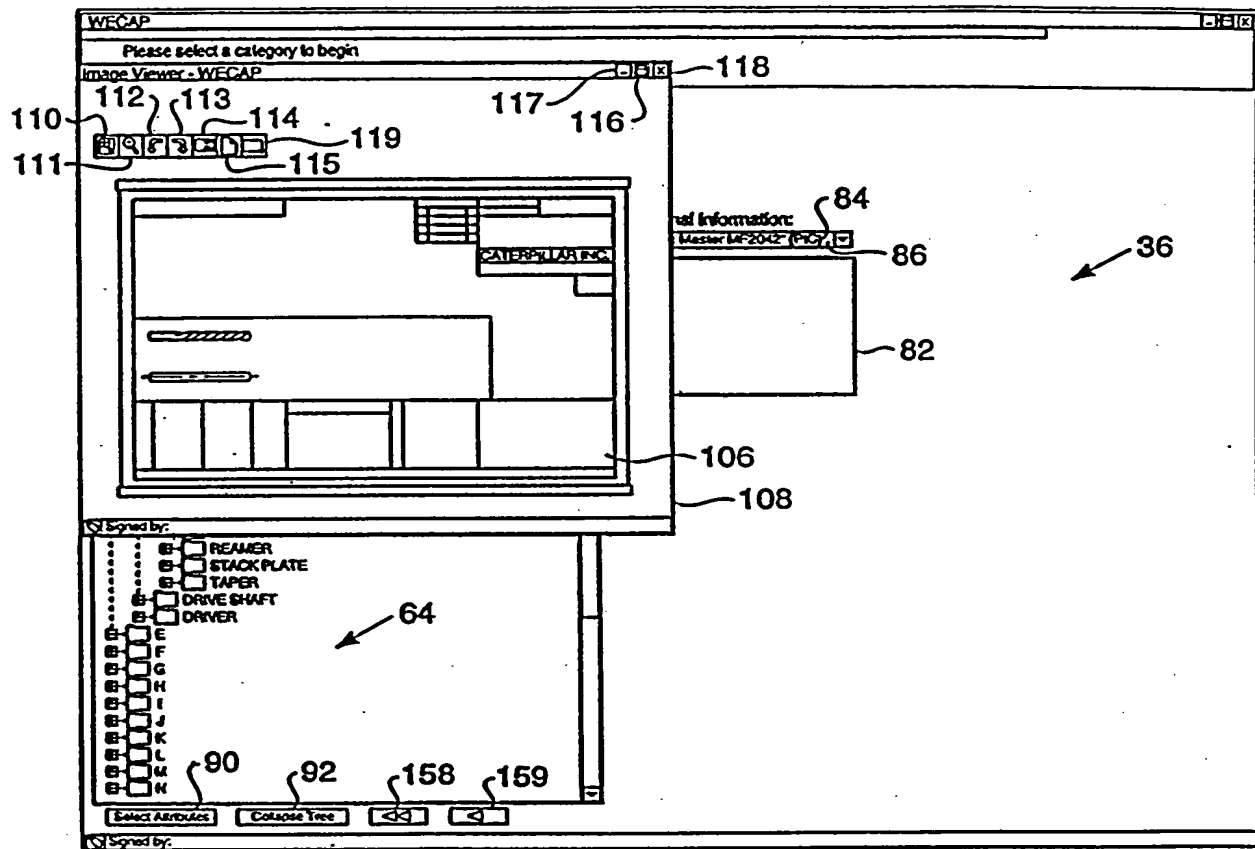


Fig. 8A

40 42 44 46 32 36 54 56 52 77 126 122 124 120 138 148 146 142 136 144 159 154 150 152 158

WECAP

17 attribute(s) found

KEYWORD SEARCH BETA SEARCH GLOBAL SEARCH ORDER STATUS HELP

Categories: Keyword/Sortgroup

TOOLING DRILL/CARBIDE/SOLID OR TIPPED/MF2042

Attributes	Equal to	Minimum	Maximum
SHAPE			
CUTTING DIA-A			
OVER ALL LENGTH-B			
FLUTE LENGTH-C			
SHANK DIAMETER-D			
SHK REDUCED LGTH-E			
POINT STYLE			
POINT ANGLE-F			
MARGIN			
OIL HOLE			
MATERIAL TYPE			
MATERIAL GRADE			
PT GRD TNG ANG-G			
PT GRD LGTH-H			
PT GRD PT LGTH-I			
OIL FLUTES			
SURFACE TREAT			

Facility: (ALL) 138

Orb (ALL) 148

142 136 144 159

Search Clear All Clear Row

signed by: 154 150 152 158

Fig. 8B

Fig. 8C

Fig. 8D

1052542-01802

Fig. 8E

CITY FLUTES
SURFACE TREAT

Facility: (ALL) City: (ALL)

Search Clear All Clear Row

Signed by:

Fig. 8F

CITY FLUTES
SURFACE TREAT

Facility: (ALL)
 ADMINISTRATION BUILDING
 AURORA PLANT
 BUILDING AD
 CAT AIRCRAFT DIV (GRTR PEO AIRPT)

City: (ALL)

Search Clear Row

Signed by:

Fig. 9A

1055642-01102

168 40 54 56 52 160

WECAP

Results: 1-100 of 398

KEYWORD SEARCH SFR SEARCH GLOBAL SEARCH DPOER STATUS HELP

Categories: TOOLING Keyword: DYNULCARBIDE/SOLID OR TIPPERM62042

32 162 163 164 165 166 167 36

PART NO.	SHAPE	CUTTING DIA-A	OVERALL LENGTH-B	FLUTE LENGTH-C	SHANK DIAMETER-D	SHK REDUCED LGH-E	POINT
0020420411	1.0000	1.2000	30.0000	13.0000	1.5000		
0020378942	1.0000	1.2000	26.1000	19.1000	1.2000		
0020420284	1.0000	1.3400	49.0000	4.0000	3.1800		
0020420415	1.0000	1.4000	50.8000	15.0000	1.4000		1.00
0020384374	1.0000	1.4200	50.8000	25.4000	1.4200		1.00
0020376682	1.0000	1.5000	36.2000	19.1000	1.5000		1.00
0020420271	1.0000	1.5990	36.1000	9.7000	3.1700		1.00
0020420147	1.0000	1.7000	43.0000	20.0000	1.7000		2.00
0020420266	1.0000	1.7050	33.9000	11.5000	1.7000		1.00
0020420536	1.0000	10.0000	101.5000	47.5000	10.0000		
0020420442	1.0000	10.0000	114.3000	73.0000	10.0000		
0020420446	1.0000	10.0000	114.3000	73.0000	10.0000		
0020420321	1.0000	10.0000	136.0000	80.0000	10.0000	1.0000	1.00
0020373632	1.0000	10.0000	75.0000	38.0000	10.0000		1.00
0020382352	1.0000	10.0000	90.5000	43.5000	16.0000	40.0000	
0020420412	1.0000	10.3000	139.5000	75.5000	12.0000		
0020420405	1.0000	10.3200	112.0000	66.0000	10.3200		
0020420222	1.0000	10.3200	128.0000	78.0000	15.8750		
0020420257	1.0000	10.5000	106.4000	61.4000	16.0000	40.0000	
0020420444	1.0000	10.5000	114.3000	73.0000	10.5000		
0020420527	1.0000	10.5000	118.0000	71.0000	12.0000		
0020363318	1.0000	10.5000	140.0000	80.0000	16.0000		1.00
0020420158	1.0000	10.5000	140.0000	80.0000	16.0000		1.00
0020420122	1.0000	10.5000	149.0000	84.0000	11.0000		1.00
0020420195	1.0000	10.5000	152.0000	76.0000	10.5000		1.00
0020420068	1.0000	10.5000	164.0000	117.0000	10.5000		1.00
0020420157	1.0000	10.5000	85.7000	60.8000	10.5000		2.00

170 172 174 176

Details Attributes Prev 100 Next 100 Reset Modify

208 212 180 178 196 182

Default Metric English

158 159

Signed by:

Figure 1 is a screenshot of a CAD/CAM software interface. The main window is titled 'WECAP' and displays a list of results (1-100 of 338). The results are organized into a table with columns: PART NO., QTY, PRICE, and POINT. The table lists various part numbers and their corresponding quantities and prices. A 'Sort Order' dialog box is open in the foreground, showing two panes: 'Current sort order' and 'New sort order'. The 'Current sort order' pane lists various attributes like SHAPE, CUTTING DIA-A, OVER ALL LENGTH-B, FLUTE LENGTH-C, SHANK DIAMETER-D, SHK REDUCED LGTH-E, POINT STYLE, POINT ANGLE-F, MARGIN, OIL HOLE, MATERIAL TYPE, MATERIAL GRADE, PT GRD INC ANG-G, PT GRND LGTH-H, PT GRD PT LGTH-I, QTY FLUTES, and SURFACE TREAT. The 'New sort order' pane is empty. There are checkboxes for 'Sort by Part Number' and 'Sort by Part Name'. The dialog box has 'OK' and 'Cancel' buttons. The background shows a 'WECAP' window with a list of results (1-100 of 338) and a table with columns: PART NO., QTY, PRICE, and POINT. The table lists various part numbers and their corresponding quantities and prices.

Fig. 9C

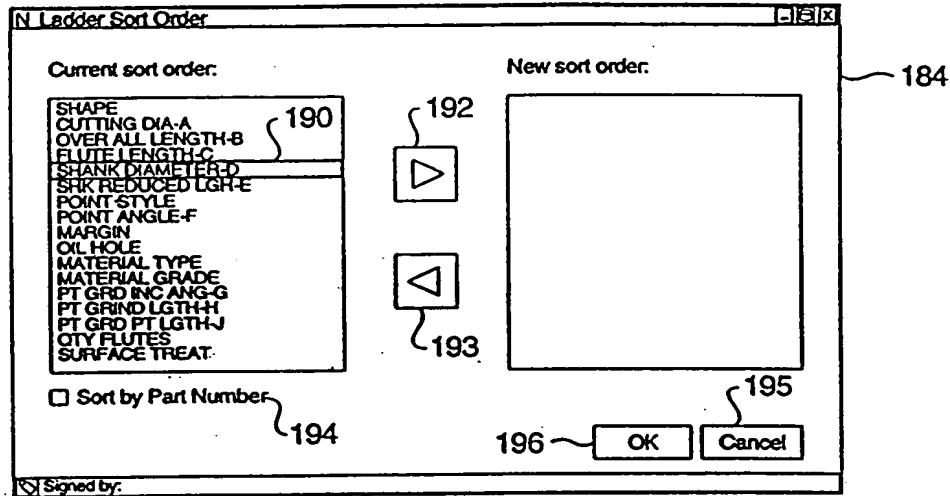


Fig. 9D

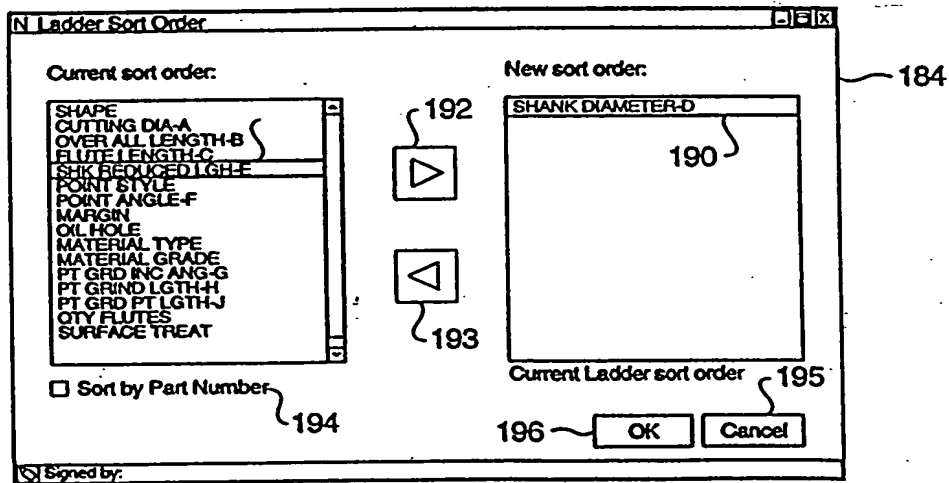


Fig. 9E

168 40 54 56 52

42 44 46

32 36

WECAP

Results 1-100 of 398

KEYWORD SEARCH SFR SEARCH GLOBAL SEARCH SPOCA STATUS HELP 48

Categories: Keyword: DRILL/CARBIDE/SOLID OR TIPPED/MF2042

PART NO.	SHANK DIAMETER (D)	SHAPE	CUTTING DATA	OVERALL LENGTH (B)	FLUTE LENGTH (C)	SPR REDUCED LGTH (E)	POINT
0020378942	1.2000	1.0000	1.2000	25.1000	19.1000		
0020420415	1.4000	1.0000	1.4000	50.8000	15.0000		1.00
0020384374	1.4200	1.0000	1.4200	50.8000	25.4000		1.00
0020420411	1.5000	1.0000	1.2000	30.0000	13.0000		
0020376682	1.6000	1.0000	1.6000	30.2000	18.1000		1.00
0020420147	1.7000	1.0000	1.7000	43.0000	20.0000		2.00
0020420266	1.7000	1.0000	1.7000	39.8000	11.9000		1.00
0020420536	10.0000	1.0000	10.0000	101.5000	47.6000		
0020420442	10.0000	1.0000	10.0000	114.3000	73.0000		
0020420448	10.0000	1.0000	10.0000	114.3000	73.0000		
0020420321	10.0000	1.0000	10.0000	135.0000	80.0000	1.0000	1.00
0020373832	10.0000	1.0000	10.0000	75.0000	36.0000		1.00
0020420402	10.0000	1.0000	8.2000	101.8000	47.8000	40.0000	
0020420532	10.0000	1.0000	8.7000	10.3000	61.0000		
0020420531	10.0000	1.0000	9.0000	103.0000	61.0000	40.0000	
0020420287	10.0000	1.0000	9.2000	136.0000	80.0000		1.00
0020420114	10.0000	1.0000	9.5000	135.0000	76.0000		1.00
0020420126	10.0000	1.0000	9.6000	145.0000	80.0000		1.00
0020420547	10.0000	1.0000	9.7000	151.0000	103.3000		
0020420417	10.0000	1.0000	8.1000	102.0000	62.0000		1.00
0020385155	10.0080	1.0000	8.7000	102.0000	65.0000		1.00
0020780101	10.3120	2.0000	11.1130	139.7000	76.2000	127.0000	
0020420468	10.3200	1.0000	10.3200	112.0000	65.0000		
0020420444	10.5000	1.0000	10.5000	114.8000	73.0000		
0020420195	10.5000	1.0000	10.5000	152.0000	75.0000		1.00
0020420066	10.5000	1.0000	10.5000	164.6000	117.0000		1.00
0020420157	10.5000	1.0000	10.5000	85.7000	60.8000		2.00

170 172 174 176

View Results Ladder Sort Order Units

Details Attributes Prev 100 Next... Reset Modify...

208 212 180 178 196 182 198 200 202

158 159

1052640 20810 21925001

[illegible][illegible]

020431.0834

Database System Facilitating Textual
Search by: Steven C. Bailey, et al.
Filed: January 18, 2002 Sheet 20 of 49

Fig. 9G

PART NO.	CUT DIA-A	OVERALL LENGTH	SHANK DIA-C	SHANK LENGTH-D	TP LENGTH-E	FLUTE LENGTH-F	PWT
0019459262	20.003	304.0000	22.2250	88.3000	67.9120	214.6300	2.00
0019456992	20.6325	293.0000	25.4000	44.3500	44.3500	232.1000	2.00
0019454812	21.0312	482.0000	28.9812	101.6000	80.8000	274.6500	2.00
0019456412	21.9170	304.8000	25.4000	76.2000	60.8000	215.9000	2.00
0019454002	22.1869	306.0000	26.0949	101.6000	76.2000	274.6500	2.00
0019457302	23.8125	406.4000	25.4000	88.3000	60.8000	292.1000	2.00
0019458042	25.2525	355.6000	26.0949	101.6000	80.8000	274.6500	2.00
0019454802	23.2525	482.0000	26.0949	101.6000	76.2000	274.6500	2.00
0019456282	24.2087	812.0000	25.3698	69.5000	56.1000	730.2500	2.00
0019457252	25.3485	308.0000	21.7500	88.3000	76.2000	281.0000	2.00
0019454332	25.4000	411.8000	26.0949	101.6000	60.8000	317.5000	2.00
0019454132	25.4990	352.5500	25.3949	141.4780	76.2000	211.0740	2.00
0019457222	26.9875	354.0000	25.4000	88.3000	61.9760	139.7000	2.00
0019457112	26.9875	406.4000	25.4000	88.3000	60.8000	292.1000	2.00
0019454662	26.9875	482.0000	26.0949	101.6000	67.1500	355.6000	2.00
0019457742	27.5615	308.0000	21.7500	88.3000	76.2000	281.0000	2.00
0019459287	25.0040	266.0000	26.0949	76.2000	61.8160	190.5000	2.00
0019459315	11.0000	558.8000	19.0470	69.3000	45.2000	462.6000	2.00
0019456862	11.5000	279.4000	25.4000	88.3000	28.4000	177.8000	2.00
0019459272	14.0000	266.0000	25.4000	88.3000	28.1000	165.0000	2.00
0019459252	14.5000	266.0000	25.4000	63.5000	63.5000	190.5000	2.00
0019456502	14.5000	304.8000	25.3950	76.2000	28.1000	215.9000	2.00
0019459246	15.0000	240.0000	25.4000	60.0000	25.4000	267.2000	2.00
0019459247	16.7500	350.0000	25.4000	60.0000	25.4000	317.2000	2.00
0019456812	17.0000	400.0000	25.4000	101.6000	17.5000	279.4000	2.00
0019459222	17.5000	400.0000	25.4000	101.6000	36.5000	285.8000	2.00
0019456732	18.2500	307.4000	22.2250	88.3000	67.9000	218.0000	2.00

170

New Results 172 Ladder Sort Order 174 Units 176

☐ Default 198
☐ Metric 200
☐ English 202

208 212

180 178

196 182

158 159

Fig. 9H

PART NO.	CUT DIA-A	OVERALL LENGTH	SHANK DIA-C	SHANK LENGTH-D	TP LENGTH-E	FLUTE LENGTH-F	PWT
0019459262	20.71	11.8700	8.750	3.5000	2.2800	8.4500	2.00
0019456992	21.25	15.5000	1.0000	3.5000	1.7500	11.5000	2.00
0019454812	22.60	19.0000	1.6998	4.0000	2.0000	14.7500	2.00
0019456412	23.60	12.0000	1.0000	3.0000	2.0000	8.5000	2.00
0019454002	23.75	20.0000	1.4998	4.0000	3.0000	14.7500	2.00
0019457302	23.75	16.0000	1.0000	3.5000	2.0000	11.5000	2.00
0019458042	23.80	14.0000	1.4998	4.0000	2.0000	7.5000	2.00
0019454802	23.80	19.0000	1.4998	4.0000	3.0000	13.7500	2.00
0019456282	24.31	32.0000	1.998	2.7500	1.5000	28.7500	2.00
0019457252	26.01	20.0000	1.2500	3.5000	3.0000	15.0000	2.00
0019454332	1.0000	17.0000	1.4998	4.0000	2.0000	12.5000	2.00
0019454132	1.0039	13.8800	1.998	5.5700	2.0000	8.3100	2.00
0019457222	1.0622	10.0000	1.0000	3.5000	2.4400	5.5000	2.00
0019457112	1.0625	16.0000	1.0000	7.5000	2.0000	11.5000	2.00
0019454662	1.0625	19.0000	1.4998	4.0000	2.2500	14.0000	2.00
0019457742	1.0851	19.0000	1.2500	3.5000	2.0000	15.0000	2.00
0019459267	1.2500	10.5000	1.2998	3.0000	2.0400	7.5000	2.00
0019459315	0.4330	21.8992	0.7498	2.7519	1.7785	19.0000	2.00
0019456862	0.4527	10.9999	0.9222	3.5000	1.1181	7.0000	2.00
0019459272	0.5511	10.4999	0.7222	3.5000	1.5000	6.4999	2.00
0019459252	0.5709	10.4999	0.9222	3.5000	2.5000	7.4999	2.00
0019456502	0.5709	12.0000	0.9998	3.0000	1.5000	8.5000	2.00
0019459246	0.5906	13.3856	0.9999	2.2622	0.9999	10.5196	2.00
0019459247	0.6594	15.2513	0.9999	2.2622	0.9999	12.4681	2.00
0019456812	0.6692	15.7480	0.9999	2.2222	0.6689	10.2222	2.00
0019459222	0.6692	15.7480	0.9999	2.2222	1.2991	11.2519	2.00
0019456732	0.7185	12.1023	0.8760	3.5000	2.2725	8.5826	2.00

170

New Results 172 Ladder Sort Order 174 Units 176

☐ Default 198
☐ Metric 200
☐ English 202

208 212

180 178

196 182

158 159

Fig. 10

WECAP

Item number 1 of 298

42 44 46

40 KEYWORD SEARCH 48 GLOBAL SEARCH 77 ORDER STATUS HELP

54 Categories: 56 Keyword: DRILL CARBIDE/SOLID OR TIPPED DRILL

52 Item #: 0020-020411P 216 Locations: (Click location for quantity) 232

Price: \$1.00 218 CAT INDOOR MATERIALS PURCH - UP 234

MFR Name: GUNFING 220 FUEL SYSTEMS - 27

MFR Part #: 0701 222 Site: J18 Quantity: 150 238

Web Link: 224 Building Code: 6 240 236

Description: 226 1 SHAPE, 001250 CUTTING DIA, 00300 OVER ALL LENGTH, 00130 FLUTE LENGTH, 001500 SHANK DIAMETER, 00020 SHK REDUCED LSL, 0 POINT STYLE, 130 POINT ANGLE, 1 MARGN, NO OIL APPLYD, GUNFING 701

FRASAR IMAGE (PG 215

214

242 Order 1 of 298 230 228 229 158 159

Signed by:

Fig. 11

Employee Name 248
KIPLINGER

Employee ID 249
0000035586

Emp Div/Sec 250
86560

Class/Ident 251
1 0020420411 252

Facility Code 253
29

Building Code 254
B

Crt No. 255
27

Keyword 256
DRILL CARBIDE/SOLID OR TIPPED MF2040

UM 258
PC

Description 257
1 SHAPE, 001.200 CUTTING DIA,
0030.0 OVER ALL LENGTH, 0013.0
FLUTE LENGTH, 001.500 SHANK
DIAMETER, 000.0 SHK REDUCED LGH,
0 POINT STYLE, 130 POINT ANGLE,
1 MARGIN, NO OIL APPVD: GUHRING
701

Qty Ordered 260
10

Charge Div/Sec 261
86560

Expense Acct. 262
999

Equipment No. 268
123456789

Order No. 269

Delivery Note 271

Hot Indicator 270

Tool Control 266

Submit 272

Cancel 273

Help 274

Signed by 246

244

264

265

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274

246

Fig. 12A

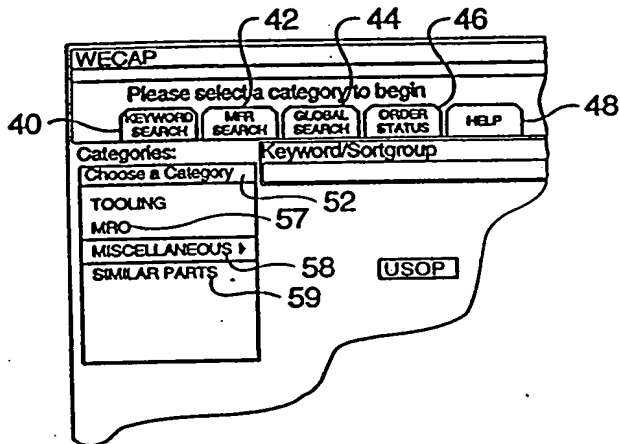


Fig. 12B

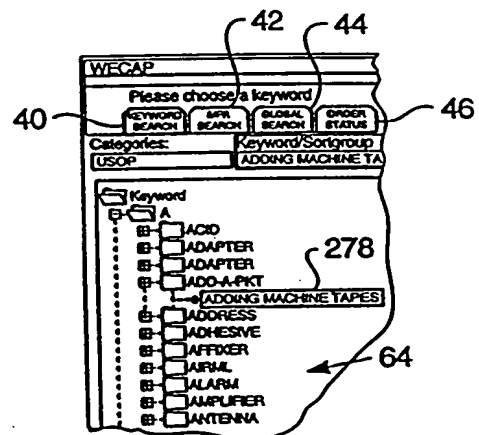
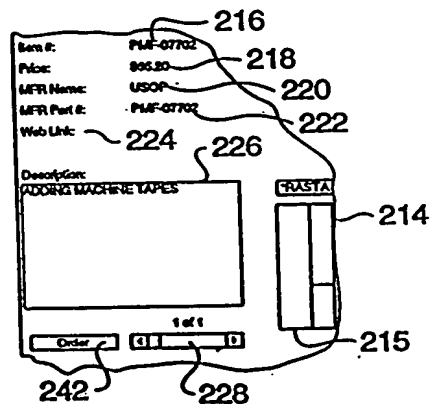


Fig. 12C



2005042-01802

Fig. 13A

WECAP

32

REOR NAME PHONE EXT DELIVER TO LOCATION BUY FAC RCV FAC PO PREFIX DOCK NO DATE
 KIPLINGER 43397 [] [] (UBG) [] 2000-04-19

REOR E-MAIL ID DELIVER TO NAME PH EXT DEL TO CODE SHIP ROUTING DUE DATE
 [] [] [] [] [] 2000-04-20

NOTE CODES: REMARKS: (Internal) REBILL CODE
 (09) 400 [] []
 [] [] NOTES: (To Supplier)
 [] []

DISTRIBUTION FAC DEPT DIV SECT EXP ORDER NO. MISC TAX CODE TAX QUAL ☐ MANUAL REVIEW
 ACCOUNTING (NT) 00994 1865 160 [] [] [] [] [] []

ITEM NO. CATERPILLAR IDENT. NO. DESCRIPTION QUANTITY U/M PRICE PER
 01 (PMF-07702) (ADDDING MACHINE TAPES) [] (CTN) (65.21) []

Submit Cancel Charge To Help

Signed by: []

280 282

Fig. 13B

20810-249250T

284

REOR NAME PHONE EXT DELIVER TO LOCATION BUY RCV FAC FAC PO PREFIX DOCK NO DATE
 KIPLINGER 43397 URG 2000-04-19

REOR E-MAIL ID DELIVER TO NAME PH EXT DEL TO CODE SHIP ROUTING DUE DATE
 2000-04-20

NOTE CODES: 286 REMARKS: (Internal)
 (U9) 1400
 NOTES: (To Supplier)

DISTRIBUTION FAC DEPT DIV SECT EXP ORDER NO. MISC TAX CODE TAX QUAL ☐ MANUAL REVIEW
 ACCOUNTING NT J0994 865 60
 Fac Control Acd Sub Acd Sub Sub Order No. Misc

ITEM NO. CATERPILLAR IDENT. NO. DESCRIPTION QUANTITY U/M PRICE PER
 01 PMF-07702 ADDING MACHINE TAPES CTN 66.21

287 288 289 290 291

Submit Cancel Charge To Help

292

Signed by:

Fig. 13C

1052642 011802

REQR NAME
KIPLINGER

REQR E-MAIL ID
[]

NOTE CODES:
US 400
[] []
[] []

DISTRIBUTION
ACCOUNTING

ITEM NO. CATER
01 PMF-0

Signed by: []

Charge To: (If other than Submitter)

Last Name 293
Blessin

Fac Code 297
[]

283
☒ Employee

295
☐ Contractor

296
☐ Both

298
Search

299
Clear

300
Select

294
Cancel

VIEW

280

Submit Cancel Charge To 292 Help

Fig. 13D

2004-01-18 10:56:42

REQR NAME
KIPLINGER

REQR E-MAIL ID

NOTE CODES:
US 400

DISTRIBUTION ACCOUNTING

ITEM NO. CATER
01 PMF-0

Signed by:

Charge To: (If other than Submitter)

Last Name 293
Blessin

N4	BLESSIN	DAVID	W
JA	BLESSIN	JENNIFER	L
N1	BLESSIN	STEPHEN	W
41	BLESSING	MICHAEL	E

300

Fac Code 297

283
☒ Employee

295
☐ Contractor

296
☐ Both

297
Search

298
Clear

300
Select

299
Cancel

294
VIEW

Submit

Cancel

Charge To 292

Help

280

Fig. 13E

1005642 01802 20050424

310 312

REQR NAME 284 PHONE EXT 302 DELIVER TO LOCATION 307 BUY FAC 305 RCV FAC 318 285
BLESSIN 43401 URG 2000-04-20

REQR E-MAIL ID 320 DELIVER TO NAME 322 PH EXT 324 DEL TO CODE 328 SHIP ROUTING DUE DATE 285
2000-04-21

NOTE CODES: 286 REMARKS: (Internal) 330 326
U9 400
NOTES: (To Supplier) 332

334 335 336 337 304 340 342 344 346 350
DISTRIBUTION (FAC DEPT) DIV SECT EXP ORDER NO. MISC TAX CODE TAX QUAL MANUAL REVIEW
ACCOUNTING NT 00924 865 60 Order No. Misc

ITEM NO. CATERPILLAR IDENT. NO. 308 DESCRIPTION QUANTITY UOM PRICE PER
01 PMF-07702 ADDING MACHINE TAPES CTN 66.21

287 288 289 309 290 291 352

Submit 354 Cancel 356 Charge To 292 Help 358

Signed by:

Fig. 13F

305

BUY	RCV	FAC	PO	PREFIX	DOCK NO	DATE
			UBG			2000-04-24
			UBG			
			UBGA			
			UBGC			
			UBGD			
			UBGE			
			UBGF			
			UBGG			

SHIP ROUTING DUE DATE

2000-04-25

REBILL CODE

316

10052642 014902

Fig. 13G

334 335 337 336 304 308

DISTRIBUTION		FAC DEPT	DIV	SECT	EXP	ORDER NO.	MISC	TAX CODE	TAX QUAL	<input type="checkbox"/> MANUAL REVIEW
ACCOUNTING		INT 100944	865	70	1087	Order No.	Misc			
1022	RPR AND MAIN-VEHICLES									
1066	RPR TO EQUIPMENT									
1068	RPR AND MAIN-BUILDINGS									
1081	SUP- FURN AND OFFICE EQUIP									
1087	SUP- MISCELLANEOUS									
1094	OTHER SPEC ORDERS									

338

DESCRIPTION QUANTITY UOM PRICE PER

CHINE TAPES CTN 6621

Charge To Help

Signed by:

Fig. 13H

10052642-011302

DISTRIBUTION ACCOUNTING		FAC	DEPT	DIV	SECT	EXP	ORDER NO.	MISC	TAX CODE	TAX QUAL	<input type="checkbox"/> MANUAL REVIEW
		NT	00944	865	70	1087					
		Fac: Control/Act Sub AcctS									
ITEM NO. CATERPILLAR IDENT. NO.		DEFAULT									
(01) KPMF-07702		BZ	BUSINESS ZONE								
		CR	PURCH CREDIT								
		EZ	ENTERPRISE ZONE								
		ME	MACHINE / EQUIPMENT								
		ME1	MACHINE / EQUIPMENT								
		ME2	MACH AND EQUIP NC								
		4	10								

Submit

348

Help

Signed by:

Fig. 13I

The screenshot shows a software window with a title bar containing a close button (X). The window contains a text area with the following information:

Charge To :	CARR
Item ID No. :	PMF-07702
Quantity :	1
*** Price EST and does not include tax or shipping***	
Price per Unit :	66.21
Total Estimated Price :	66.21
Order this item ?	

Below the text area are three buttons: "Yes", "No", and "Cancel".

Labels and arrows point to various parts of the window:

- 361 points to the text area.
- 360 points to the window frame.
- 362 points to the "Yes" button.
- 364 points to the "No" button.
- 366 points to the "Cancel" button.

At the bottom left of the window, there is a checkbox labeled "Signed by:".

Fig. 14A

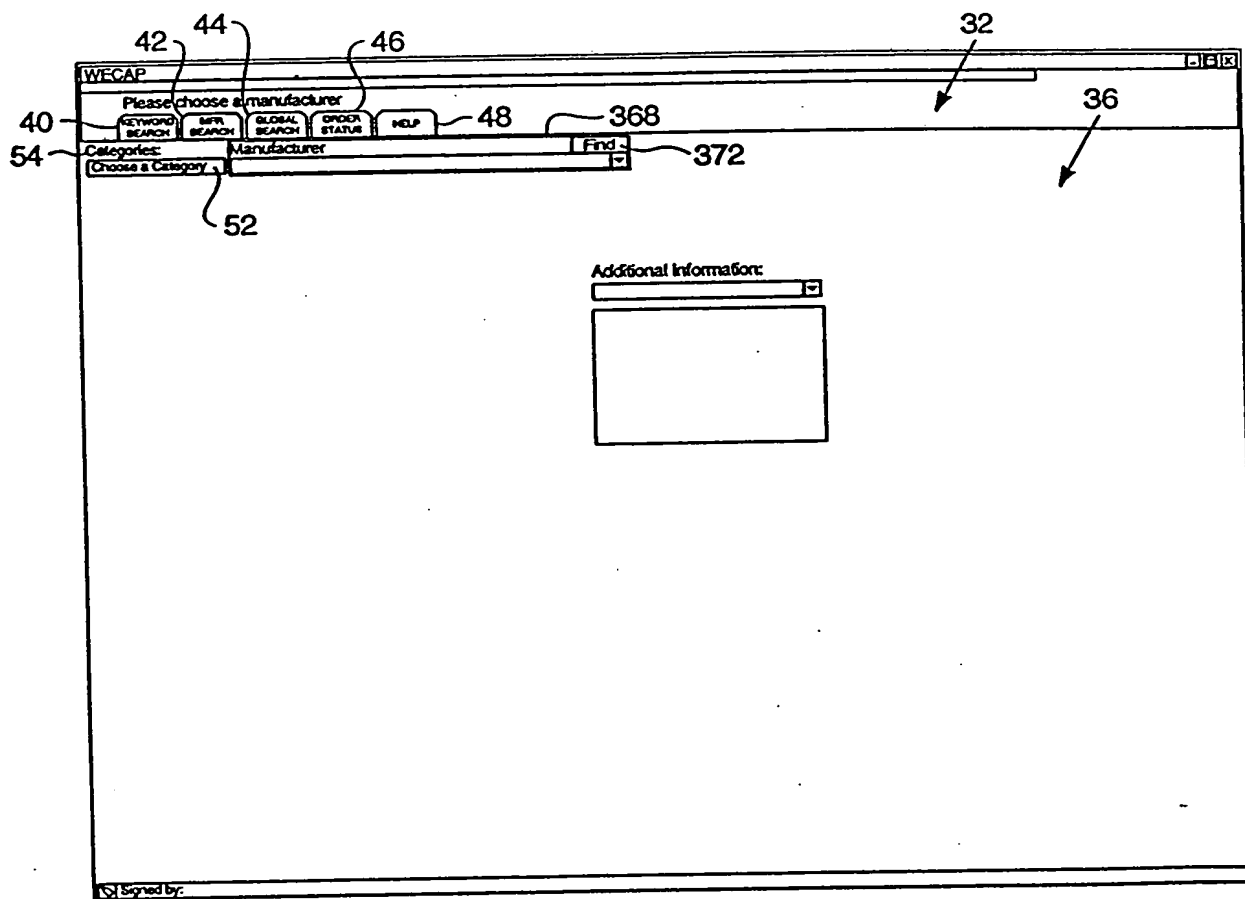


Fig. 14B

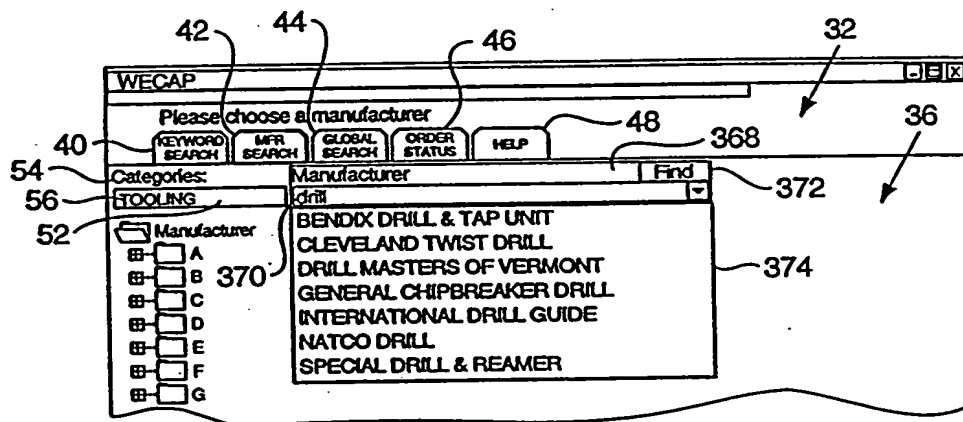


Fig. 14C

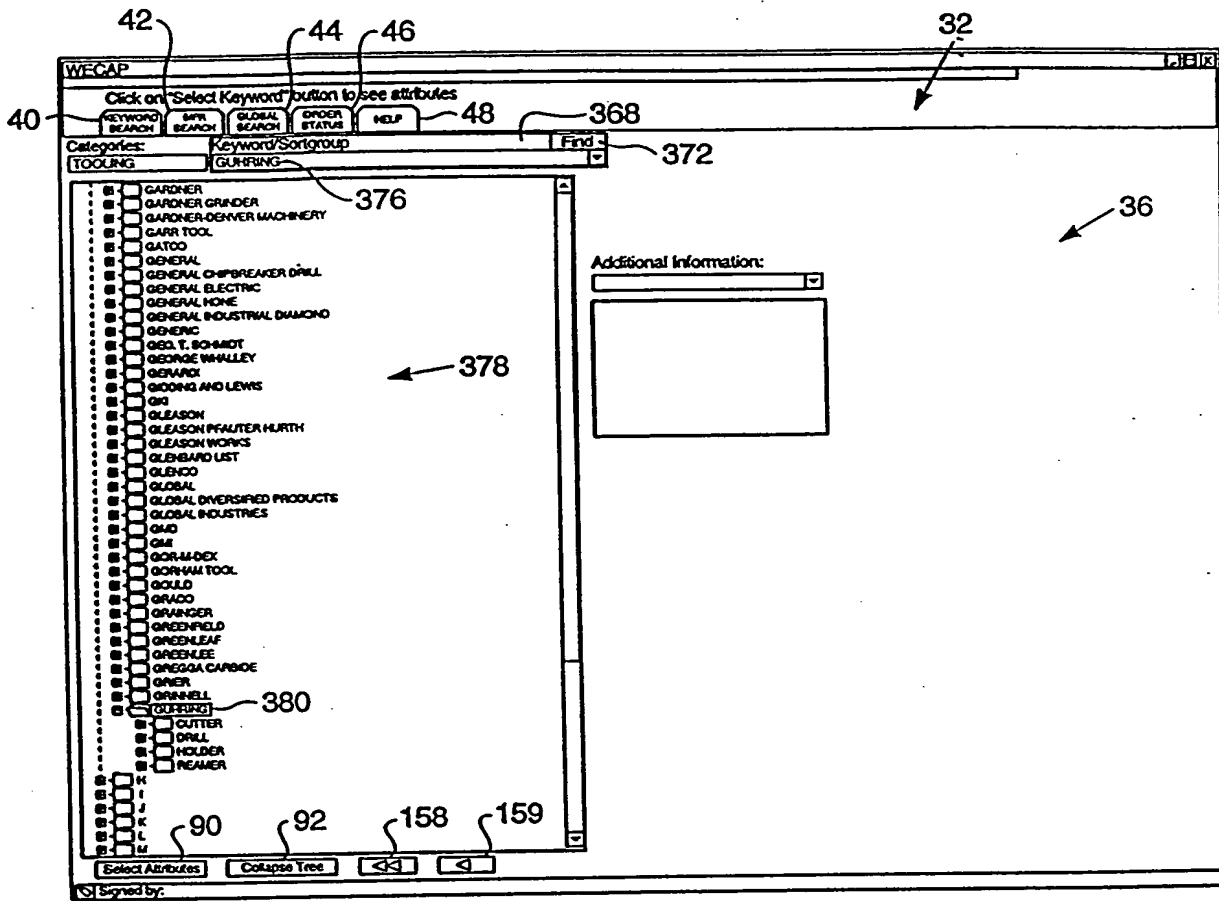


Fig. 14D

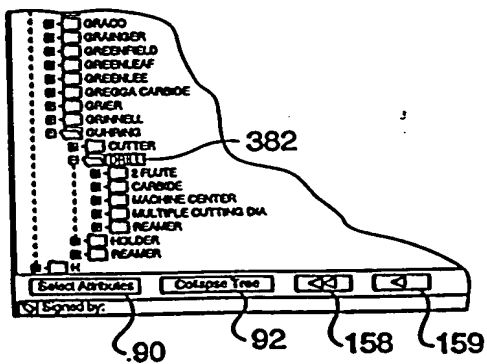
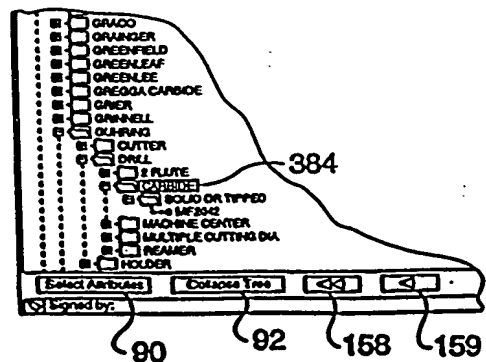


Fig. 14E



The screenshot shows a software window titled 'WECAP'. At the top, there is a menu bar and a toolbar. The toolbar includes buttons for 'Click on Keyword', 'button to see attributes', and a search bar. Below the toolbar, there is a section for 'Categories' and 'Manufacturer'. The 'Categories' list includes 'TOOLING'. The 'Manufacturer' list includes 'GARDNER', 'GARDNER GRINDER', 'GARDNER OVERHEAD MACHINERY', 'GARA TOOL', 'GATCO', 'GENERAL', 'GENERAL CHISEL/DRILL', 'GENERAL ELECTRIC', 'GENERAL HOME', 'GENERAL INDUSTRIAL DIAMOND', 'GEHRC', 'GEO. T. SCHMIDT', 'GEORGE WHALLEY', 'GOWARD', 'GROONG AND LEWIS', 'GRI', 'GLEASON', 'GLEASON PFAUTER HURTH', 'GLEASON WORKS', 'GLENNARD LIST', 'GLENNCO', 'GLOBAL', 'GLOBAL DIVERSIFIED PRODUCTS', 'GLOBAL INDUSTRIES', 'GMO', 'GMA', 'GOMAL-DEX', 'GOMVAL TOOL', 'GOULD', 'GRACO', 'GRANGER', 'GREENFIELD', 'GREENLEAF', 'GREENLEE', 'GREENGA CARBIDE', 'GNER', 'GRANWELL', 'GRUNING', 'GUTTER', 'DRILL', 'PLATE', 'CARBIDE', 'SOLID OR TIPPED', 'MACHINE CENTER', 'MULTIPLE CUTTING DIA', 'REARER', and 'HOLDER'. On the right side, there is a section titled 'Additional Information' which shows 'Generic Master MF2042 (P/G)'. Below this, there is a diagram of the tool (80) and its components (82). The interface is annotated with various numbers pointing to specific elements: 42 points to the 'WECAP' title bar; 44 points to the 'Click on Keyword' button; 46 points to the 'button to see attributes' button; 32 points to the search bar; 40 points to the 'Categories' list; 54 points to the 'TOOLING' category; 56 points to the 'Manufacturer' list; 52 points to the manufacturer list; 36 points to the 'Additional Information' section; 84 points to the 'Generic Master MF2042 (P/G)' text; 86 points to the diagram of the tool; 80 points to the tool diagram; 82 points to the tool components; 388 points to the 'SOLID OR TIPPED' text; 386 points to the 'MACHINE CENTER' text; 158 points to the 'MULTIPLE CUTTING DIA' text; 159 points to the 'REARER' text; 90 points to the 'Gutter' text; and 92 points to the 'DRILL' text.

Fig. 14G

1052542-01802

WE-CAP

Results 1-24 of 24

40 168 42 44 46 162 32

54 48 163 164 165 166 36 167

56 Categories: Keyword: DRILL/CARBIDE/COOLD OR TIPPED/AF2042

52 TOOLING

160

PART NO.	SHAPE	CUTTING DATA	OVERALL LENGTH	FLUTE LENGTH	SHANK DIAMETER	SHK REDUCED LGTH	POINT STYLE	POINT
020420411	1.0000	1.2000	30.0000	13.0000	1.5000			132
020420412	1.0000	1.7000	43.0000	20.0000	1.7000		2.0000	118
020420413	1.0000	10.0000	75.0000	36.0000	10.0000		1.0000	118
020420414	1.0000	11.2000	95.0000	47.0000	11.2000		1.0000	152
020420415	1.0000	12.8000	102.0000	51.0000	12.8000		1.0000	152
020420416	1.0000	14.2500	145.0000	95.0000	16.0000		1.0000	142
020420417	1.0000	2.3000	45.0000	15.0000	2.5000		1.0000	130
020420418	1.0000	2.9000	46.0000	16.0000	2.9000		1.0000	118
020420419	1.0000	3.2000	49.0000	18.0000	3.2000		1.0000	118
020420420	1.0000	3.9000	49.0000	24.0000	3.2400		1.0000	150
020420421	1.0000	4.5000	50.0000	25.0000	4.5000		1.0000	118
020420422	1.0000	4.6000	58.0000	24.0000	4.6000		1.0000	118
020420423	1.0000	4.8000	60.0000	25.0000	4.8000		1.0000	118
020420424	1.0000	4.9000	60.0000	25.0000	4.9000		1.0000	118
020420425	1.0000	5.2000	60.0000	25.0000	5.2000		1.0000	118
020420426	1.0000	6.0000	60.0000	25.0000	6.0000		1.0000	118
020420427	1.0000	6.9000	77.0000	32.0000	8.0000	37.0000	1.0000	150
020420428	1.0000	8.2000	79.0000	37.0000	8.2000		1.0000	150
020420429	1.0000	9.4000	84.0000	40.0000	9.4000		1.0000	152
020420430	1.0000	9.5000	84.0000	40.0000	9.5000		1.0000	142
020420431	2.0000	20.0000	131.0000	40.0000	20.0000			80
020420432								
020420433								
020420434								
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020420626								
020420627								
020420628								
020420629								
020420630								

Fig. 15A

WECAP

Enter value(s) and click on "Search"

KEYWORD SEARCH PART SEARCH GLOBAL SEARCH ORDER STATUS HELP

Categories:

ALL TOOLING MRO MISCELLANEOUS SIMILAR PARTS

Free Search

Data entered in "Free Search" is used to search across all fields. You may also type specific data in the fields below to more accurately describe the desired results and to speed your search.

Part Number MFR Part Number Part Price Start Part Price Stop

Manufacturer

Part Description

Keyword

Search Clear All << <

Signed by:

200431.0834

Fig. 15B

40 42 44 46 32

WECAP

Enter value(s) and click on Search

48 408 36

406 Categories: Free Search 390

56 ALL

57 TOOLING

58 MRO

59 INTERNAL

USOP

MISCELLANEOUS

SIMILAR PARTS

Data entered in "Free Search" is used to search across all fields. You may also type specific data in the fields below to more accurately describe the desired results and to speed your search.

394 396 398

392 Part Number MFR Part Number Part Price Start Part Price Stop

Manufacturer 400

Part Description 402

Keyword

404 158 159

Search Clear All

412 410

200431.0834

Fig. 15C

40 42 44 46 32 36 48

WECAP Results 1-100 of 398

KEYWORD SEARCH MFR SEARCH GLOBAL SEARCH ORDER STATUS HELP

Categories: Keyword:

PART NO.	RANK (MAX)	CATEGORIES	KEYWORD	DESCRIPTION
0001100292		TOOLING	MF-2379	1.583 DRILL SIZE 0.828 BIT OD 0.800 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD
0001100342		TOOLING	MF-2379	25.20 DRILL SIZE 15.94 BIT OD 26.7 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROVD
0001100772		TOOLING	MF-2379	22.50 DRILL SIZE 49.23 BIT OD 72.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100782		TOOLING	MF-2379	16.75 DRILL SIZE 43.82 BIT OD 72.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100802		TOOLING	MF-2379	13.80 DRILL SIZE 41.24 BIT OD 72.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100812		TOOLING	MF-2379	11.00 DRILL SIZE 36.10 BIT OD 72.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100812		TOOLING	MF-2379	36.20 DRILL SIZE 35.14 BIT OD 72.2 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100872		TOOLING	MF-2379	13.50 DRILL SIZE 36.10 BIT OD 44.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100882		TOOLING	MF-2379	17.50 DRILL SIZE 44.45 BIT OD 80.8 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100882		TOOLING	MF-2379	11.00 DRILL SIZE 36.10 BIT OD 44.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100882		TOOLING	MF-2379	14.00 DRILL SIZE 36.10 BIT OD 44.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100882		TOOLING	MF-2379	17.00 DRILL SIZE 44.45 BIT OD 80.8 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100812		TOOLING	MF-2379	20.50 DRILL SIZE 44.45 BIT OD 83.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100815		TOOLING	MF-2379	17.00 DRILL SIZE 44.45 BIT OD 80.8 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100817		TOOLING	MF-2379	11.00 DRILL SIZE 35.88 BIT OD 36.7 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROVD
0001100821		TOOLING	MF-2379	13.80 DRILL SIZE 40.82 BIT OD 46.0 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROVD
0001100822		TOOLING	MF-2379	17.00 DRILL SIZE 25.40 BIT OD 87.2 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROVD
0001100832		TOOLING	MF-2379	BIT DRILL 10.0 TO 15.0 MM DRILL RANGE 90 DEG INCL ANGLE 36.00 DIA BODY 32.00 DIA E SHK 133.0 OAL
0001100834		TOOLING	MF-2379	14.00 DRILL SIZE 40.00 BIT OD 80.0 OVERALL LENGTH TN MATERIAL TYPE C-6 MATERIAL GRAD APPROVED
0001100835		TOOLING	MF-2379	16.00 DRILL SIZE 42.00 BIT OD 80.0 OVERALL LENGTH TN MATERIAL TYPE C-6 MATERIAL GRAD APPROVED
0001100836		TOOLING	MF-2379	16.00 DRILL SIZE 42.00 BIT OD 80.0 OVERALL LENGTH TN MATERIAL TYPE C-6 MATERIAL GRAD APPROVED
0019224332		TOOLING	MF-2050	SCL SHAPE 0.838 BODY DIAMETER 0.2500 DRILL DIAMETER 0.2500 DRILL LENGTH 03.13 OVERALL LENGTH
0019224332		TOOLING	MF-2050	1.4888 CUT DIAMETER 14.88 OVERALL LENGTH 04 SHANK NO BIT SHANK TYPE 0.000 SHANK DIA HSS MAT
0019224332		TOOLING	MF-2050	2.4218 CUT DIAMETER 07.25 OVERALL LENGTH 00 SHANK NO BS SHANK TYPE 0.422 SHANK DIA HSS MAT
0019224332		TOOLING	MF-2050	BROCA 493 MM DIA 18.250 CC 75 CT 136 HASTE R 18.250 CUT DIAMETER 136.0 OVERALL LENGTH ET ANG
0019224332		TOOLING	MF-2050	0.5807 SMALL DIA 0.8581 LARGE DIA 0.80 OVERALL LENGTH 00.47 STEP LENGTH 04.81 FLUTE LENGTH
0019224332		TOOLING	MF-2050	MULTIPLE CUTTING DIA 2000 SMALL DIA 0.8250 LARGE DIA 4.25 IN OAL MATL HSS STD
0019224332		TOOLING	MF-2050	05.800 SMALL DIA 09.525 LARGE DIA 114.3 OVERALL LENGTH 019.5 STEP LENGTH 014.0 FLUTE LENGTH
0019224332		TOOLING	MF-2050	04.100 SMALL DIA 09.200 LARGE DIA 105.0 OVERALL LENGTH 006.0 STEP LENGTH 079.0 FLUTE LENGTH
0020184372		TOOLING	MF-2055	1 SHAPE 02.500 CUTTING DIA 14.75 OVERALL LENGTH 10.75 FLUTE LENGTH 80 SHANK NO VFLD SHANK
0020187084		TOOLING	MF-2055	1 SHAPE 020.00 CUTTING DIA 126.0 OVERALL LENGTH 085.0 FLUTE LENGTH SHANK NO BS SHANK TYPE
0020187616		TOOLING	MF-2055	1 SHAPE 031.30 CUTTING DIA 126.0 OVERALL LENGTH 085.0 FLUTE LENGTH 60 SHANK NO ABS SHANK
0019224342		TOOLING	MF-2035	SCL SHAPE 1.000 BODY DIAMETER 0.3120 DRILL DIAMETER 0.312 DRILL LENGTH 03.13 OVERALL LENGTH
0019224342		TOOLING	MF-2050	1.8000 CUT DIAMETER 06.42 OVERALL LENGTH 04 SHANK NO BIT SHANK TYPE 0.000 SHANK DIA HSS MAT
0019224342		TOOLING	MF-2050	0.5312 CUT DIAMETER 06.00 OVERALL LENGTH 00 SHANK NO BS SHANK TYPE 0.531 SHANK DIA HSS MAT
0019224342		TOOLING	MF-2050	BROCA 493 MM DIA 18.250 CC 75 CT 136 HASTE R 18.250 CUT DIAMETER 136.0 OVERALL LENGTH ET ANG

170 172 158 159

Details Attributes Prev 100 Next 100

208 212 180 178

By: Signed by:

Fig. 15D

Fig. 15E

PART NO.	RANK (MAX)	CATEGORIES	KEYWORD	DESCRIPTION
0020420411		TOOLING	MF-2042	1/2" SHAPE 001200 CUTTING DIA 00300 OVER ALL LENGTH 00150 FLUTE LENGTH 001200 SPANK DIAMETER

Fig. 15F

WECAP

Results: 1 of 1

Item #: 0020420411
 Category: TOOLING
 Keyword: Drill/Carbide/Solid or Tipped/MF2042

420

32

36

Characteristic	Value	FD1 DESCRIPTION
SHAPE	1.0000	2 1 SHAPE, 001200 CUTTING DIA, 003000 OVERALL LENGTH, 001300 FLUTE LENGTH, 001200 SHANK DIAMETER
CUTTING DIA-A	1.2000	
OVER ALL LENGTH-B	30.0000	
FLUTE LENGTH-C	13.0000	
SHANK DIAMETER-D	1.5000	
SHK REDUCED LGH-E		
POINT STYLE		
POINT ANGLE-F	130.0000	
MARGIN	1.0000	
OIL HOLE	NO	
MATERIAL TYPE	TC	
MATERIAL GRADE	C-2	
PT GRD INC ANG-G		
PT GRIND LGTH-H		
PT GRD PT LGTH-J	.2800	
QTY FLUTES	2.0000	
SURFACE TREAT	BRIGHT	

1 of 1

Details Cancel

Signed by:

170

172

158 159

208 212 180 178

Signed by:

Fig. 15G

422

Item #: 0020420411 424
Category: TOOLING 420
Keyword: Drill/Carbide/Solid or Tipped/MF2042 426

428

Characteristic	Value
SHAPE	1.0000
CUTTING DIA-A	1.2000
OVER ALL LENGTH-B	30.0000
FLUTE LENGTH-C	13.0000
SHANK DIAMETER-D	1.5000
SHK REDUCED LGH-E	
POINT STYLE	
POINT ANGLE-F	130.0000
MARGIN	1.0000
OIL HOLE	NO
MATERIAL TYPE	TC
MATERIAL GRADE	C-2
PT GRD INC ANG-G	
PT GRIND LGTH-H	
PT GRD PT LGTH-J	.2800
QTY FLUTES	2.0000
SURFACE TREAT	BRIGHT

430

1 of 1

434

Details Cancel

Signed by: 432 436

Fig. 16A

473 WECAP 40

42 Item number 1 of 14 44 46 48

460 474

476 Legend 464

478 ☐ Current Location

480 ☐ Approved

482 ☐ Rejected

484 ☐ Pending

☐ FYI

☐ Not Visited

Requestion Date From 03/01/2000 To 05/15/2000

Requestion Number 462 1784 - CHAIR, MID-BCK, A 1

466 Status 468 Details

470

488 Ordered 03-15-2000 484 Tom Carroll 04-04-2000 486 Sent 04-04-2000

20020118-013001

Fig. 16B

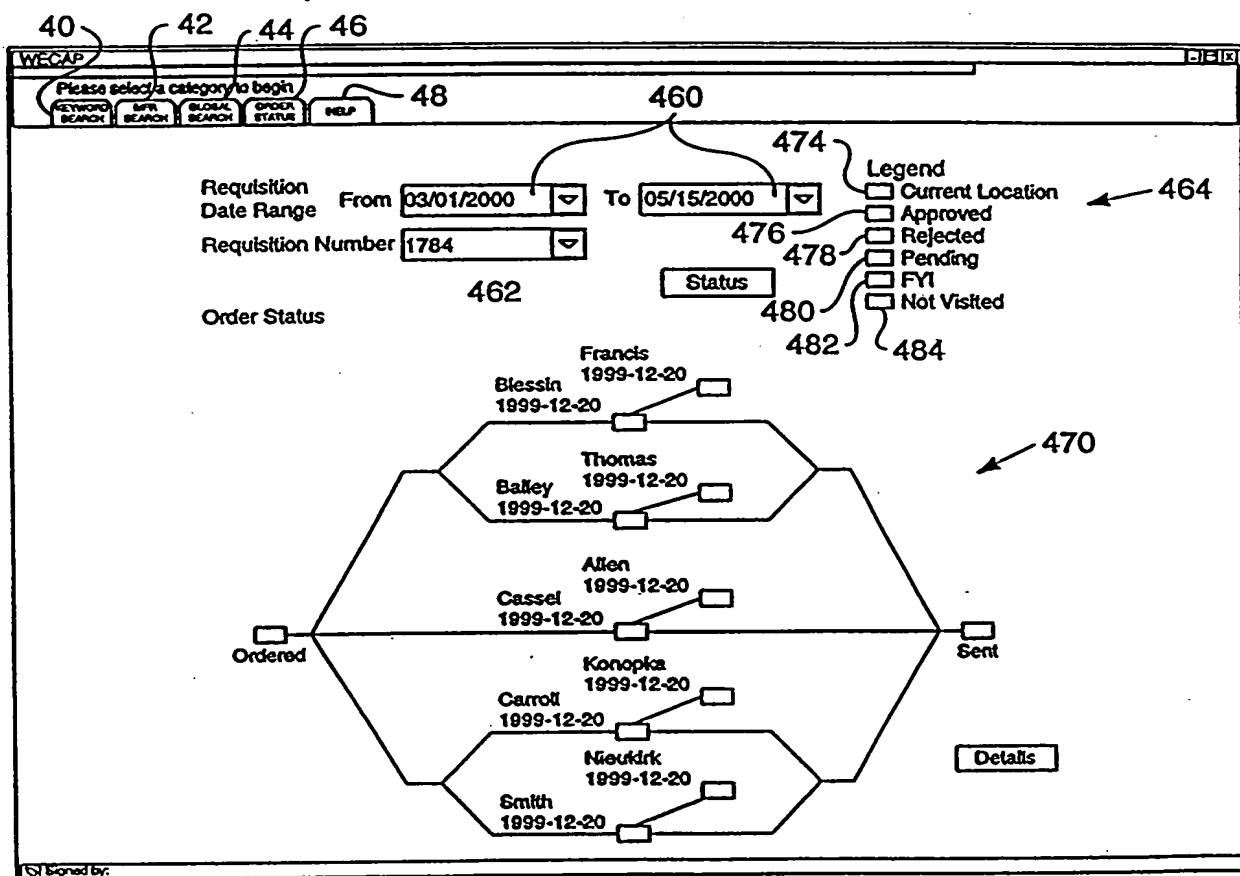


Fig. 17A

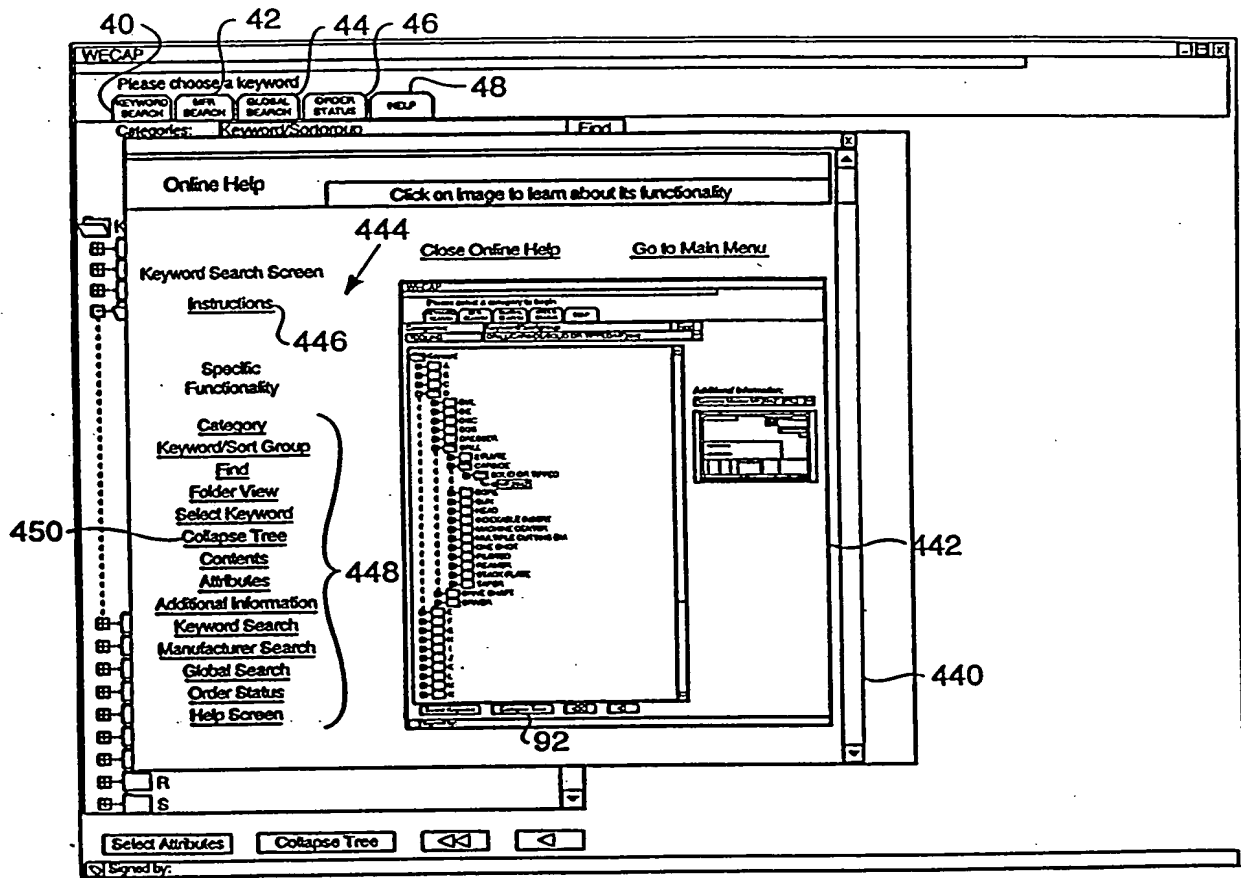
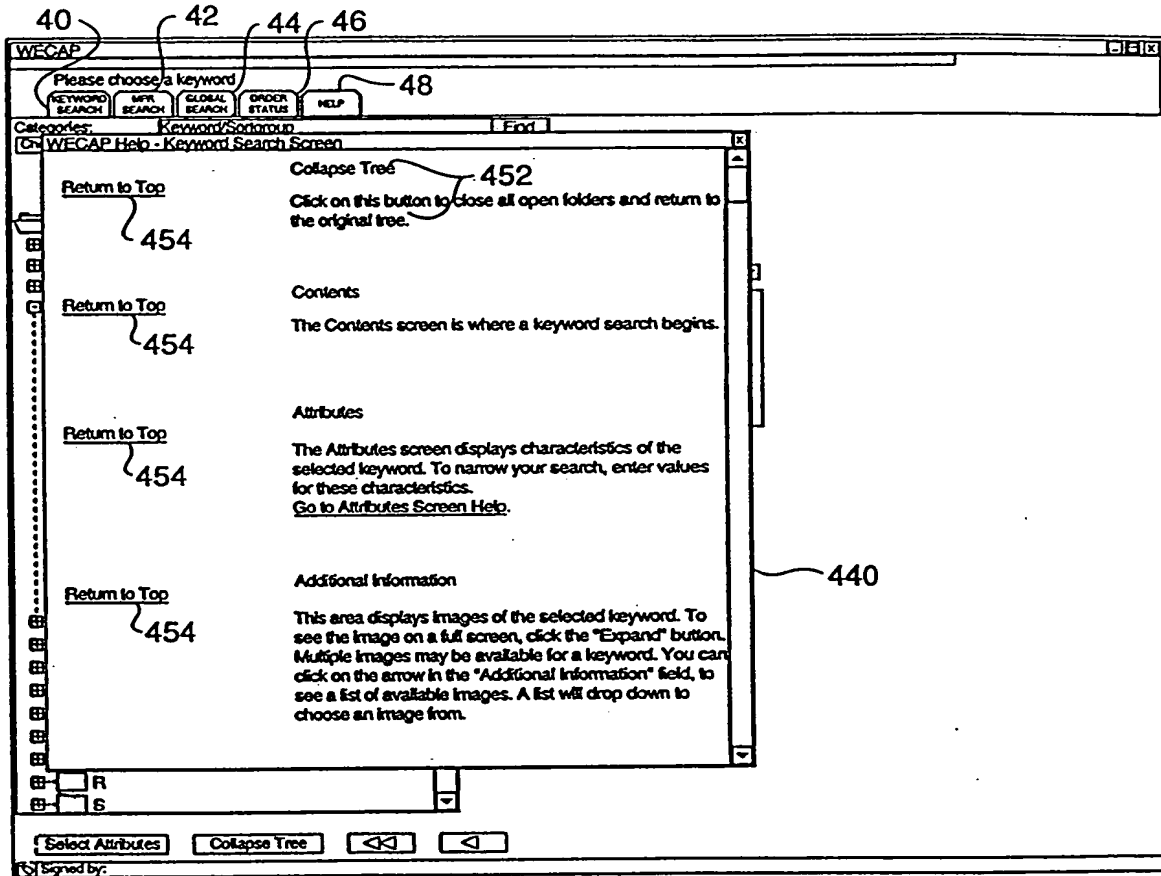


Fig. 17B



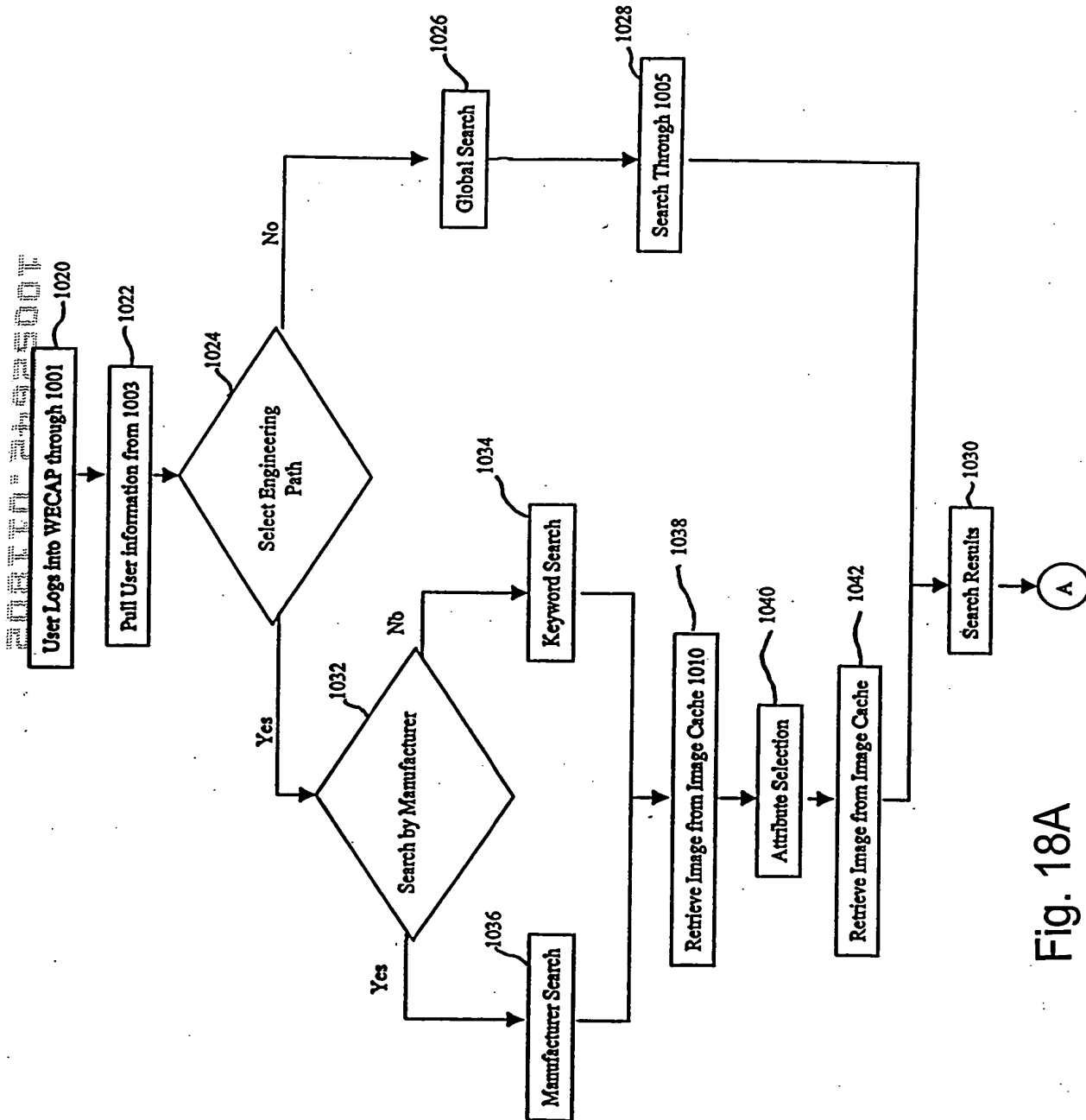


Fig. 18A

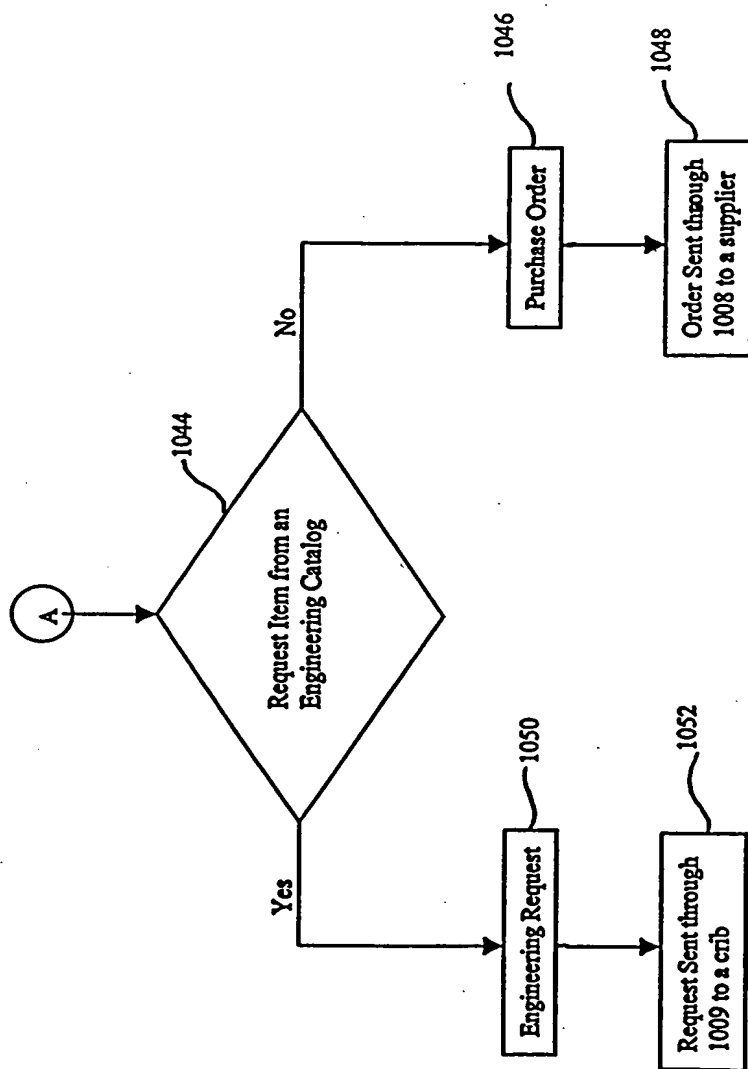


Fig. 18B